

TABLE 59. Statistical profile of postgraduation plans of doctorate recipients in engineering fields, by sex and field of study: 2009

Characteristic	All engineering fields	Aerospace/aeronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Materials science engineering	Mechanical engineering	Other engineering
All doctorate recipients (number)	7,634	296	808	708	1,694	252	622	1,095	2,159
	Number								
Postgraduation status ^a									
Definite postgraduation study	1,643	59	222	132	257	30	164	251	528
Definite employment	2,832	116	310	272	731	99	172	402	730
Seeking employment or study	2,070	78	188	205	460	73	196	288	582
Other ^b	241	8	20	16	62	9	19	32	75
	Percent								
Definite postgraduation study ^{c,d}									
Postdoc fellowship	32.2	30.5	33.8	26.5	31.5	33.3	26.8	27.5	37.3
Postdoc research associateship	65.5	67.8	64.4	69.7	66.5	63.3	72.6	70.1	59.8
Other ^e	2.3	1.7	1.8	3.8	1.9	3.3	0.6	2.4	2.8
Definite employment ^f									
Academe	17.5	20.7	7.7	32.0	13.8	32.3	12.2	18.9	17.9
Government	9.1	19.8	4.5	13.2	7.1	D	D	8.5	10.4
Industry/business ^g	69.2	50.9	83.9	51.5	75.1	58.6	73.8	69.7	66.7
Nonprofit	2.2	5.2	2.3	D	1.9	D	D	1.2	3.2
Other/unknown ^h	2.0	3.4	1.6	D	2.1	1.0	D	1.7	1.8
Primary activity ⁱ									
R&D	72.9	72.0	85.5	38.9	82.9	47.3	83.8	76.9	68.7
Teaching	8.5	12.1	3.4	16.4	6.5	22.0	4.4	9.9	7.7
Management or administration	5.7	7.5	D	7.0	D	11.0	4.4	4.1	8.3
Professional services	11.4	6.5	D	36.1	D	15.4	5.0	8.5	13.7
Other	1.4	1.9	1.4	1.6	0.7	4.4	2.5	0.6	1.7
Secondary activity ^j									
R&D	13.9	15.9	6.2	26.2	10.0	26.4	6.9	14.6	15.8
Teaching	8.3	7.5	3.1	12.3	7.1	11.0	3.8	10.5	9.9
Management or administration	17.9	23.4	23.4	11.9	16.5	13.2	21.9	18.5	17.5
Professional services	6.3	7.5	5.2	8.2	5.5	11.0	4.4	6.1	6.6
Other	2.1	0.9	3.1	1.6	2.1	2.2	1.9	1.9	2.3
No secondary activity	51.6	44.9	59.0	39.8	58.8	36.3	61.3	48.5	47.9
Activity unknown	8.3	7.8	6.5	10.3	7.4	8.1	7.0	9.7	9.0
Postgraduation location ^k									
United States ^k	88.6	90.9	90.8	88.1	88.2	82.9	86.6	88.2	89.3
New England	7.4	D	7.9	3.7	9.4	D	6.0	6.1	7.8
Middle Atlantic	12.8	6.3	13.9	8.2	13.0	11.6	14.0	12.1	14.6
East North Central	11.2	10.9	13.7	9.9	7.9	13.2	11.0	16.4	10.3
West North Central	3.3	3.4	3.9	4.5	2.9	3.9	3.9	3.1	2.9
South Atlantic	13.6	18.9	12.0	15.8	11.4	22.5	13.7	11.2	14.8

TABLE 59. Statistical profile of postgraduation plans of doctorate recipients in engineering fields, by sex and field of study: 2009

Characteristic	All engineering fields	Aerospace/aeronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Materials science engineering	Mechanical engineering	Other engineering
East South Central	2.5	D	1.1	3.5	1.8	D	1.8	3.5	2.8
West South Central	7.8	7.4	12.4	11.1	5.1	11.6	3.0	6.1	8.6
Mountain	6.4	D	6.8	8.2	4.5	D	8.6	7.8	5.9
Pacific and insular	23.1	21.1	18.4	21.8	31.4	9.3	24.4	21.6	21.1
Not in United States	11.3	9.1	9.2	11.9	11.6	17.1	13.4	11.6	10.6
Location unknown	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.1
Male doctorate recipients (number)	6,006	254	592	560	1,435	186	466	942	1,571
Number									
Postgraduation status ^a									
Definite postgraduation study	1,279	D	160	106	220	D	121	219	373
Definite employment	2,293	D	229	214	633	D	129	349	560
Seeking employment or study	1,585	64	139	159	382	52	145	248	396
Other ^b	179	7	12	15	47	7	14	24	53
Percent									
Definite postgraduation study ^{c,d}									
Postdoc fellowship	31.8	D	32.5	D	30.5	D	26.4	28.3	37.0
Postdoc research associateship	65.9	D	65.6	D	67.3	D	73.6	69.9	60.3
Other ^e	2.3	1.9	1.9	4.7	2.3	3.7	0.0	1.8	2.7
Definite employment ^f									
Academe	17.1	23.1	7.0	30.8	13.7	D	D	19.5	17.0
Government	9.0	D	D	13.6	7.4	D	D	7.2	9.8
Industry/business ^g	69.9	50.0	83.4	53.3	75.4	60.0	75.2	70.2	68.0
Nonprofit	2.0	D	D	D	1.3	D	D	1.4	3.2
Other/unknown ^h	2.0	2.9	2.2	D	2.2	0.0	D	1.7	2.0
Primary activity ^j									
R&D	74.1	70.4	86.4	39.8	82.1	47.8	83.3	78.7	71.7
Teaching	8.1	13.3	D	D	6.5	22.4	D	D	6.5
Management or administration	5.8	8.2	D	D	5.1	D	D	D	7.9
Professional services	10.9	7.1	7.0	35.6	5.6	D	D	7.0	12.8
Other	1.1	1.0	1.9	1.6	0.7	1.5	3.3	0.3	1.2
Secondary activity ^j									
R&D	13.6	D	D	26.7	D	26.9	D	13.7	14.4
Teaching	8.4	8.2	D	11.0	7.3	7.5	D	D	10.8
Management or administration	19.3	25.5	23.0	D	D	17.9	23.3	19.0	19.5
Professional services	6.4	D	D	D	5.3	D	D	D	6.5
Other	2.0	0.0	2.8	1.6	2.0	1.5	0.8	2.2	2.6
No secondary activity	50.2	D	58.2	39.8	56.0	D	61.7	47.9	46.3
Activity unknown	8.5	5.8	7.0	10.7	7.4	10.7	7.0	9.7	9.3

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Characteristic	All engineering fields	Aerospace/aeronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Industrial engineering	Materials science engineering	Mechanical engineering	Other engineering
R&D	14.9	D	D	24.5	D	25.0	D	20.8	20.5
Teaching	7.6	D	D	17.0	5.5	20.8	D	D	7.1
Management or administration	12.0	D	24.7	D	D	D	17.5	14.6	10.9
Professional services	5.8	D	D	D	6.6	D	D	D	7.1
Other	2.4	11.1	3.9	1.9	2.2	4.2	5.0	0.0	1.3
No secondary activity	57.2	D	61.0	39.6	76.9	D	60.0	52.1	53.2
Activity unknown	7.6	25.0	4.9	8.6	7.1	0.0	7.0	9.4	8.2
Postgraduation location ^l									
United States ^k	91.0	94.4	93.0	86.9	94.1	92.6	83.7	89.4	92.0
New England	7.0	D	5.6	D	10.4	0.0	D	5.9	8.6
Middle Atlantic	14.8	D	14.7	D	17.8	D	14.0	11.8	16.3
East North Central	10.1	D	13.3	9.5	6.7	D	D	9.4	12.0
West North Central	3.4	D	4.2	7.1	D	D	D	D	2.5
South Atlantic	14.8	33.3	12.6	11.9	11.1	22.2	11.6	10.6	18.5
East South Central	2.5	D	D	D	D	D	D	D	3.1
West South Central	8.0	D	15.4	10.7	5.2	D	D	D	7.4
Mountain	6.6	D	5.6	11.9	5.2	D	D	12.9	4.0
Pacific and insular	23.1	27.8	21.0	20.2	32.6	11.1	27.9	27.1	19.4
Not in United States	9.0	D	7.0	13.1	5.9	D	16.3	10.6	8.0
Location unknown	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

D = suppressed to avoid disclosure of confidential information.

^a Includes only respondents who responded to postgraduation status.

^b Includes respondents who indicated that they did not plan to work or study, respondents who indicated some other type of postgraduation plans, and respondents who indicated definite plans for other full-time degree program.

^c Does not include respondents who indicated plans for other full-time degree program.

^d Percentages are based on number of doctorate recipients reporting definite postgraduation plans for study and type of postdoctoral study.

^e "Other" includes respondents who indicated definite postgraduation study plans for traineeship, internship/clinical residency, or other study.

^f Percentages are based on number of doctorate recipients reporting definite postgraduation plans for employment.

^g Includes doctorate recipients who indicated self-employment.

^h "Other" is mainly composed of elementary and secondary schools.

ⁱ Percentages are based on number of doctorate recipients reporting definite postgraduation plans for employment and primary work activity.

^j Percentages are based on number of doctorate recipients reporting definite postgraduation plans and type of plans.

^k Includes cases with a U.S. unknown region of employment after doctorate; see appendix A for states/territories included in regions.

NOTE: Due to rounding, the sum of percentages may not equal to 100.

SOURCE: NSF/NIH/USED/USDA/NEH/NASA, 2009 Survey of Earned Doctorates.